



# GIORGI CHIGHLADZE

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## Personal Information

- Date of Birth: 3 January 1978
- Place of Birth: Tbilisi, Georgia
- Nationality: Georgian

## Education

- |   |            |
|---|------------|
| <b>Ph.D. candidate in Agricultural Engineering</b><br>Iowa State University, Ames, IA   | 2006 - now |
| <b>Candidate of Technical Science Degree in Hydraulic Engineering</b><br>G. Chogovadze Georgian Research Institute of Power Engineering and Power Structure, Tbilisi, Georgia   | 2005       |
| <b>Masters Degree in Engineering Management</b><br>Georgian Technical University, Tbilisi, Georgia <ul style="list-style-type: none"><li>▪ Diploma with Honors</li></ul>  | 2001       |
| <b>Completion of Business Studies Program and Intensive English Language Course</b><br>The University of Limerick, Limerick, Ireland  | 2000       |
| <b>B.S. Degree in Hydrotechnical Engineering</b><br>Georgian Technical University, Tbilisi, Georgia<br>Specialization in Hydraulic Construction of Hydroelectric Power Stations <ul style="list-style-type: none"><li>▪ Diploma with Honors</li></ul> | 1999       |

## Career History & Accomplishments

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|---|------------|
| <b>Research Assistance, Iowa State University</b><br><ul style="list-style-type: none"><li>• Working on the NSF funded project “Development of Soil Sensors and their Underground Wireless Network for Fertilization Management to Minimize Environmental Impact”</li><li>• Developing the integrated case studies for enhancement of undergraduate competency in cultural adaptability.</li><li>• Researching and writing of the case studies concerning water resource distribution and utilization in rural areas of Republic of Georgia for undergraduate students majoring in engineering.</li><li>• Participating in preparation of the grant proposal to support implementation of the sustainable engineering course in Georgian Technical University</li></ul> | 2006 - now |
|---|------------|

- Assistant Professor, *Georgian Technical University*** 2006
- Teaching the course of “Project Management” to the sophomore students majoring in Civil and Hydrotechnical Engineering.
  - Supervising the junior and senior students majoring in Hydrotechnical Engineering to execute the term design project within the course of “Hydrotechnical Construction”.
- Teaching Assistant, *Georgian Technical University*** 2000-2006
- Teaching the course of “Project Management” to the sophomore students majoring in Civil and Hydrotechnical Engineering.
  - Supervising the junior and senior students majoring in Hydrotechnical Engineering to execute the term design project within the course of “Hydrotechnical Construction”.
  - Playing key role in development and implementation of the interdisciplinary course “Sustainable Engineering” for the freshmen students majoring in Engineering, Human and Social Sciences.
  - Participating in the international educational programs:
    - » Science Education for New Civic Engagement and Responsibilities *in collaboration with US partner universities*
    - » Strengthen Public Awareness and Media in Georgia *in collaboration with European partner universities*
- Director of Teaching and Learning Center, *Georgian Technical University*** 2004-2006
- Establishing first Teaching and Learning Center in Georgian higher education institutes under the auspices of the Science Education for New Civic Engagement and Responsibilities Program and in collaboration with the teaching and learning centers from Santa Clara University (CA), George Mason University (VA) and Iowa State University (IA).
  - Organizing seminars and meetings for university professors and graduate students concerning new teaching methods and approaches.
  - Researching and publicizing new teaching techniques, educational approaches, and pedagogical methodology through the Center webpage.
  - Promoting establishment of the new multidisciplinary engineering courses incorporating engineering, science and social issues to help students reveal the limits and capacity of each one.
- Engineer, *Ortachala Energy, Ltd.*** 2001-2005
- Examining and testing hydrotechnical constructions of the Ortachala hydro power station
  - Updating the drawings of the hydro power station

### Additional Professional Activities

- Participant of the CCID (Community Colleges for International Development) 31<sup>st</sup> Annual Conference. *San Antonio, TX, USA* 2007.02
- Working on the NSF funded project “Development of Soil Sensors and their Underground Wireless Network for Fertilization Management to Minimize Environmental Impact”. *Iowa State University, Ames, IA, USA* 2007.01
- Participating in the CIP funded project “Low-cost, Sustainable Solutions in International Distance Education”. *Iowa State University, Ames, IA, USA* 2006.12
- Participating in the CCPP (Canadian College Partnership Program) project “Education –Economic Catalyst”. *Joint project of GTU (Georgia), Selkirk Collage (Canada) and Thompson University (Canada)* 2006.03
- Participating in the USAID funded project “Establishing the First Community Colleges in Georgia”. *Joint project between GTU (Georgia) and CCID (USA)* 2006.03

- Administrator of the Tempus TACIS Joint European Project (JEP-25103-2004) SPAMGO (Strengthening Public Administration and Media in Georgia). *Georgian Technical University, Tbilisi, Georgia* 2006.02
- Co-organizer of the Sigma Xi (The Scientific Research Society of American Scholars) workshop on “Research and Higher Education for Service of Society” presented by Gretchen Kalonge (Director of Department of International Relation of the University of California). *Institute of Physiology, Academy of Science of Georgia, Tbilisi, Georgia* 2005.11
- Organizer of the workshop on “the US Community Colleges Structure and Features and their Collaboration with Community Colleges’ Association” presented by PhD. Jeff Armstrong (Head of Muscatine Community College). *Teaching and Learning Center, Georgian Technical University, Tbilisi, Georgia* 2005.11
- Participant of the CELT workshop on “Innovative Teaching Techniques and Methodology”. *The Center for Excellence in Learning and Teaching, Iowa State University, Ames, IA, USA* 2005.08
- Participant of the seminar on “Development of Curriculums and Syllabuses for Technical Specialties in Professional Education”. *Waukesha County Technical College, Pewaukee, Wisconsin, USA* 2005.08
- Participant of the seminar on “International Community Partnerships in Professional Education”. *Moraine Valley Community Collage, Palos Hills, Illinois, USA* 2005.08
- Participant of the seminar on “Enhancing Faculty Development, Improving Curriculum and Instruction and Expending the skilled and Educated Workforce for Economic Development”. *The National Center for Agriscience and Technology Education, Kirkwood Community College, Cedar Rapids, IA, USA* 2005.08
- Participant of the SENCER (Science Education for New Civic Engagement and Responsibility) Summer Institute. *San Jose, CA, USA* 2005.08
- Participant of the SENCER (Science Education for New Civic Engagement and Responsibility) Summer Institute. *San Jose, CA, USA* 2004.08
- Co-organizer of the international workshop on “Science Education for New Civic Engagement and Responsibility”. *Georgian Technical University, Tbilisi, Georgia* 2004.06
- Participant of the international workshop on “Scientific Communication and Collaboration”. *Institute of Physiology, Academy of Science of Georgia, Tbilisi, Georgia* 2003.06

## Publications

- “Halocline” - textbook in hydraulic engineering, coauthor.
- 4 papers in the peer reviewed journals in hydraulic engineering
- 4 publications in the international conference proceedings in Italy, Russia and Turkey

## Memberships & Affiliations

- Member, International Association of Hydraulic Research (**IAHR**).
- Member, the Scientific Research Society **Sigma Xi**.

## Skills

### Languages:

- Russian (fluent)
- English (good)

### Computer programs:

- Microsoft Office (Word, Excel, Power Point, Access, Publisher, Outlook); Corel Draw; PhotoShop; AutoCAD; ArcGIS